

To: Bair, Rita[bair.rita@epa.gov]; Drexler, Timothy[drexler.timothy@epa.gov]
Cc: Johnson, Mark[johnson.mark@epa.gov]; Poy, Thomas[poy.thomas@epa.gov]; Porter, Andrea[porters.andrea@epa.gov]; Bosscher, Valerie[bosscher.valerie@epa.gov]
From: Deltoral, Miguel
Sent: Wed 9/7/2016 10:19:38 AM
Subject: Re: Tap Water Testing and Filter Placement

At a minimum, to assess where the lead is coming from we would need Pb, Cu, Fe, & Zn, but if I'm not mistaken, a 'metals' analysis would give you more than these four at the same time. I will talk about this with Tim later today.

Miguel A. Del Toral
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From: Bair, Rita
Sent: Tuesday, September 6, 2016 3:07:31 PM
To: Drexler, Timothy; Deltoral, Miguel
Cc: Johnson, Mark; Poy, Thomas; Porter, Andrea; Bosscher, Valerie
Subject: RE: Tap Water Testing and Filter Placement

Tim, The list of analytes collected is covered in the QAPP that you can access at <https://www.epa.gov/flint/flint-water-sampling-objectives>. Whether or not you need to collect more than lead would be dependent on your sampling objectives. Do you think you will need to know more than just what the lead levels are from the homes? In Flint, there were more objectives for collecting the other analytes like whether the home had full lead service lines or galvanized or brass sources. To some extent it had more research-type benefits in Flint that I don't know are needed in East Chicago. I'll leave that up to you and Miguel to discuss. I hope this helps somewhat.

Rita D. Bair

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From: Drexler, Timothy
Sent: Tuesday, September 06, 2016 1:47 PM
To: Deltoral, Miguel <deltoral.miguel@epa.gov>
Cc: Johnson, Mark <johnson.mark@epa.gov>; Poy, Thomas <poy.thomas@epa.gov>; Bair, Rita <bair.rita@epa.gov>; Porter, Andrea <porter.andrea@epa.gov>; Bosscher, Valerie <bosscher.valerie@epa.gov>
Subject: Re: Tap Water Testing and Filter Placement

Hi Miguel: Does this summary capture everything? What is the list of Flint analytes? Why do you collect more than lead, and in my case, arsenic for analysis?

-Tim

1. Before excavation:
 - a. Estimate the volume of water in the pipes from the kitchen tap to the water main based on plumbing materials/diameters and distance to water mains. Determine the number of sequence samples required based on total volume.
 - b. Collect two 125 mL samples, followed by the number of 1,000 mL sequential samples determined to represent the total volume estimated in step (a). These samples are to be analyzed for metals (all preserved in field with nitric acid)
 - c. A subset (20%?) of the initial 1,000 mL samples in Step (b) are to be field-filtered to measure dissolved and particulate lead
 - d. Three distribution system samples (collected after allowing water to run for 5 minutes after first series of samples are collected) for Total P, anions and metals.
 - e. pH, chlorine, and temperature are measured following the collection of the three distribution system samples
2. After excavation:
 - a. Conduct a second sequential sampling event in the same manner as (b-e) above.

From: Deltoral, Miguel
Sent: Tuesday, September 6, 2016 10:09 AM
To: Drexler, Timothy
Cc: Johnson, Mark; Poy, Thomas; Bair, Rita; Porter, Andrea; Bosscher, Valerie
Subject: Re: Tap Water Testing and Filter Placement

Hi Tim,

See attached draft. Since this is a modified version of the sampling we are conducting in Flint, I am sharing it with others as a draft for comment, but I think this should give you a sense for the scope of the effort. Since EPA labs are doing all of the Flint analyses I don't have cost info on that, but I spoke to Val and she is going to try to work on that. However, we need to know if the contractor would be collecting the samples or not to determine overall cost/sample.

Everyone - Any feedback on the customized process for East Chicago would be appreciated.

Miguel A. Del Toral

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From: Drexler, Timothy
Sent: Tuesday, September 6, 2016 08:49 AM
To: Deltoral, Miguel
Cc: Johnson, Mark
Subject: Tap Water Testing and Filter Placement

Hi Miguel: Could you send me your write up on the tap water sampling procedure we should use as a part of our soil excavation program at the USS Lead Site? Could you

also send me cost estimates for the sampling per property and the cost and type of filter we would be installing?

Thanks,

-Tim